

-1- (JAPIO)
ACCESSION NUMBER 87-225164
TITLE SWITCHING POWER SOURCE
PATENT APPLICANT (2000510) HITACHI LTD
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JAPIO CLASS 43.2 (ELECTRIC POWER--Transformation); 24.2 (CHEMICAL
ENGINEERING--Heating & Cooling); 43.4 (ELECTRIC
POWER--Applications)
ABSTRACT PURPOSE: To supply a load with stable voltage, by a
method wherein a first voltage source and a second
voltage are connected in series, and output variation
of the first voltage source is compensated by
adjusting output of the second voltage source.
CONSTITUTION: A primary winding of a transformer 20
and a controllable switch 30 are connected in series
to a DC power source 10. A first voltage source 50
outputting voltage value proportional to voltage
generated in a secondary winding of the transformer
20 during ON-period of the controllable switch 30 is
connected to the secondary winding. A second voltage
source 60 is connected in series to the first voltage
source 50, and output voltage of the second voltage
source 60 is adjusted, thereby variation of the
output voltage of the first voltage source 50 is
compensated and a load 70 is supplied with stable
required voltage.